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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/485,657 03/24/2000		03/24/2000	LEONARD COLIN ANDREWS	FBR-ABUS-0001	2124	
47649	7590	04/06/2006		EXAMINER		
	TH M. FA	AGIN LK DRIVE	MICHALSKI, JUSTIN I			
GAITHERSBURG, MD 20878				ART UNIT	PAPER NUMBER	
,				2615	2615	
				DATE MAN ED 04/0//200		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	09/485,657	ANDREWS, LEONARD COLIN					
Office Action Summary	Examiner	Art Unit					
	Justin Michalski	2615					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on 24 Ja	nuary 2006.						
, =	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	,						
Disposition of Claims							
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application.	Claim(s) <u>1-25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.	☑ Claim(s) <u>1-25</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ⊠ All b) ☐ Some * c) ☐ None of:							
,	s have been received						
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
·							
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date <u>1/24/06, 1/30/06</u> .	6) Other:	, , ,					
S. Patent and Trademark Office							

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under Ex Parte Quayle, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 24 January 2006 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5, 7, 8, 10, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lonsteln et al. (Sound & Video Contractor, "Distributed sound systems come of age", December 20, 1993) (Hereinafter "Lonsteln").

Regarding Claim 1, Lonsteln discloses a distributed stereo audio system (Fig. 1). including: two or more speakers for the broadcast of stereo audio signals (2nd page, Col. 2, stereo operation disclosed under operation of "Duo" unit), a source of stereo audio signals (Fig. 1, Pre-Amp controller), a stereo amplifier to amplify stereo audio signals

and drive the speakers (Fig. 1 discloses speaker amplifier at speaker and 2nd page, Col. 1, first paragraph under "The components") and a mains operated electrical power supply to provide power to the amplifier (Fig. 1, Power supply); where the amplifier is located in the same room as the speakers (2nd page, Col. 1, first paragraph under "The components" discloses power is amplified at each loudspeaker, i.e. same room), and remote from the signal source and power supply (Fig. 1); and where the amplifier is connected to the signal source and power supply by means of a cable which provides a right and left channel audio from the signal source to the amplifier (2nd page, Col. 2, stereo operation disclosed under operation of "Duo" unit) and DC power from the power supply to the amplifier (Fig. 1). Lonsteln does not disclose the cable being a category 5 cable.

Although Lonsteln does not disclose the use of a category 5 cable, as cited previously the Knekt System Installation Manual (Rev 2.00, 18th November 1996) discloses a distributed audio system transmitting audio signals over Category 5 cable. Newly cited Lamb et al. (US Patent 6,449,348) discloses use of transmitting power over Category 5 cable (Fig. 3, network cable 260, Col. 4, lines 42-45). Since it was well known at the time the invention was made that Category 5 cable can conduct both power and audio signals, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use any well known cable such as category 5 based on design choice and the designers preference to conduct both audio and power signals.

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Regarding Claim 2, Lonsteln further discloses amplifier and speakers in several rooms receive signals from a single source of audio signals (Fig. 1 IMP Pre-Amp Controller).

Regarding Claim 3, Lonsteln further discloses the source provides a selection of components (1st page, Col. 3, 3rd full paragraph discloses CD and satellite sources), and different audio signals are provided to different rooms (2nd page, Col. 2, two program operation disclosed under operation of "Duo" unit).

Regarding Claim 4, Lonsteln further discloses the volume is set differently in each room (Fig. 1 caption discloses local control).

Regarding Claims 5 and 20, it was well known in the art the amplifiers are based on integrated circuits to reduce the size of the amplifier.

Regarding Claim 7, it is inherent that the greater the input level to an amplifier the greater the output level will be.

Regarding Claim 8, Lonsteln further discloses a manual volume control is included with the amplifier (Fig. 1 caption discloses local control).

Regarding Claim 10, Lonsteln further discloses the amplifier is mounted with a speaker (Fig. 1 discloses speaker amplifier at speaker and 2nd page, Col. 1, first paragraph under "The components").

Regarding Claim 17, Lonsteln further discloses the amplifier accepts speaker signals from another amplifier (pre-amplifier, Fig. 1).

Regarding Claims 18 and 19, it was notoriously well known in the art that audio amplifiers contain muting systems in order to disable the audio output and input level

trim devices such as equalizers to customize the frequency response of the audio system.

4. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lonsteln as applied to claim 1 above in view of DU3 Users Guide PD-101-4-96 (Hereinafter "DU3") (Undated Prior Art submitted by applicant 24 January 2006).

Lonsteln discloses a distributed audio system but does not disclose the amplifier accepts standard line level signals from the source of stereo audio signals. DU3 discloses a distributed audio system amplifier accepting line level sources as channel inputs. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to allow an amplifier to receive line level inputs to amplify as audio output.

5. Claims 6, 9, 11, 13-15, 21, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lonsteln above, and further in view of QED AUDIO PRODUCTS LTD., "An Introduction to Streamline", April 1988, Ashford, Middlesex, England (Hereinafter "QED Audio Products").

Regarding Claims 6 and 21, Lonsteln disclose a system as stated apropos of claims 5 and 20. Lonsteln does not disclose the amplifier mounted inside an electrical light switch housing. QED Audio Products discloses a multi-room audio system including a room control amplifier mounted flush on the wall (see right hand figure under "The Room Control Amplifier" on page 2 of reference) and further discloses it is

intended to be located completely out of sight (page 2, first paragraph under "The Eye and Handset"). Therefore, it would have been obvious to one or ordinary skill in the art at the time the invention was made to include the amplifier mounted inside a light switch housing to hide the amplifier from sight as disclosed by QED Audio Products.

Regarding Claim 9, Lonsteln discloses a system as stated apropos of claim 1 above. Losteln does not disclose a hand-held remote control provided to transmit infrared signals to a receiver mounted with the amplifier. QED Audio Products discloses a hand-held remote control provided to transmit infared signals to a receiver mounted with the amplifier to control power on/off, volume up/down, and input selection from any room (disclosed under "The eye and handset", "The transmitter", and "Infra-red remote control" headings). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a hand-held remote to control the functions of the system from any room.

Regarding Claim 11, QED Audio Products further discloses a multi-room audio system including a room control amplifier mounted flush on the wall (see right hand figure under "The Room Control Amplifier" on page 2 of reference) and further discloses it is intended to be located completely out of sight (page 2, first paragraph under "The Eye and Handset").

Regarding Claim 13, QED Audio Products further discloses the cable transmitting data (under Systemline Cable Heading, Page B1).

Regarding Claims 14, 15, and 22, it is inherent that signal are modulated before transmission to an infrared emitter in order to transmit the signals through space and

that they will be demodulated when received in order to produce a transmittable signal over a conductor.

6. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lonsteln/QED Audio Products as applied to claim 22 above in view of DU3 Users Guide PD-101-4-96 (Hereinafter "DU3") (Undated Prior Art submitted by applicant 24 January 2006).

Lonsteln/QED Audio Products discloses a distributed audio system but does not disclose the amplifier accepts standard line level signals from the source of stereo audio signals. DU3 discloses a distributed audio system amplifier accepting line level sources as channel inputs. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to allow an amplifier to receive line level inputs to amplify as audio output.

7. Claims 12, 24, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lonsteln/QED Audio Products as applied to claim 11 above, and further in view of Systemline (S4.3 Multi-Room System Installation Manual, undated prior art cited by applicant filed 20 May 2003) (Hereinafter "Systemline").

Regarding Claim 12, Lonsteln/QED Audio Products discloses a system as stated apropos of claim 11 above but does not disclose the fascia plate including status indicators for the amplifier and the audio signal source components. Systemline discloses an audio distribution unit comprising a wall-mounted module to receive

commands from a remote control and displays the selected source and status indications during volume change or muting. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include a status indicator to display the selected source and relevant status indications as taught by Systemline.

Regarding Claim 24, it is inherent that signals are modulated before transmission to an infrared emitter in order to transmit the signals through space and that they will be demodulated when received.

Regarding Claim 25 Lonsteln further discloses the amplifiers receive signals from a pre-amplifier and line-level inputs (i.e. standard line level signals), Fig. 1 and 2nd Page, Col. 3, first full paragraph).

Response to Arguments

8. Applicant's arguments filed 7 July 2005 have been fully considered in view of the rejections above but they are not persuasive as it was well known in the art at the time the invention was made that Category 5 cable can be used to carry both audio signals and power as indicated above. Applicants' arguments citing industry experts that category 5 cable would be undesirable to be used transmit audio and power, for example, item 6 in Andrew Goldfinch's declaration and item 4 in Jason Knott filed 3 December 2004 are not persuasive. The specification does not address whatsoever any special means or methods utilized to overcome such undesirabilities.

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Conclusion

9. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2615.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Michalski whose telephone number is (571)272-7524. The examiner can normally be reached on M-F 7-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571)272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JIM

March 31, 2006

VIVIAN CHIN

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600